

Date: Mon, 25 Jul 94 04:30:27 PDT
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>
Errors-To: Ham-Homebrew-Errors@UCSD.Edu
Reply-To: Ham-Homebrew@UCSD.Edu
Precedence: Bulk
Subject: Ham-Homebrew Digest V94 #209
To: Ham-Homebrew

Ham-Homebrew Digest Mon, 25 Jul 94 Volume 94 : Issue 209

Today's Topics:

 Building a house: Special Considerations?
 HELP-getting sticky velcro tape to stick?
 Network Analyzer RF ?
 Two-meter satellite CW transmitter (2 msgs)

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Fri, 22 Jul 1994 04:37:32 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!netcom11!
faunt@network.ucsd.edu
Subject: Building a house: Special Considerations?
To: ham-homebrew@ucsd.edu

So, how much current at 220 is enough? Is a 20A 220V circuit enough,
or should that circuit be pulled with #10 or #8?
73, doug

Date: 24 Jul 1994 15:37:01 -0400
From: newstf01.cr1.aol.com!search01.news.aol.com!not-for-mail@uunet.uu.net
Subject: HELP-getting sticky velcro tape to stick?
To: ham-homebrew@ucsd.edu

In article <markeh-220794121237@markeh.slip.netcom.com>, markeh@netcom.com
(MarkH) writes:

Maybe someone here has some help for my problem. I have a mobile in my car,
mounted in the trunk, with the control head stuck to the dash with sticky velcro tape. Well... not very sticky, since it keeps falling off.

WB3LGC:: Try RTV, I used some to stick a compass to the dash, it works fine. It comes in black, clear and white... My wife also used velcro/RTV to hold a skirt to the bathroom sink, it's been there at least 4 years.

73, Steve

Date: Mon, 25 Jul 1994 03:08:09 GMT
From: ihnp4.ucsd.edu!usc!cs.utexas.edu!csc.ti.com!tilde.csc.ti.com!mksol!blair@network.ucsd.edu
Subject: Network Analyzer RF ?
To: ham-homebrew@ucsd.edu

Russell Smiley (russells@iconz.co.nz) wrote:
: It seems to me that it should be possible to build an RF Network Analyzer
: using just homemade hybrids, simple diode detectors, A-to-D converters
: and software in a PC. I have perused lots of esoteric IEEE, etc articles
: on the theory. Can anyone help with a reference to anything practical
: that may have been published?
: Frequency range of interest = 1 to 1000 MHz.

If you're not interested in the phase response it will be pretty easy for an experienced ham to roll his own scalar network analyzer. The reason HP charges \$30K for an instrument like you describe is the difficulty in measuring phase with an accuracy of 1 degree or so. Another difficulty is measuring the return loss (a measure of VSWR). Again, if this isn't important it'll be all the easier. You're best bet for information is to scrounge a service manual for an HP 8505, 8753, or 8510. They will have schematics that will give you the basic idea. This is assuming you've no interest in selling your finished product since that would/should be illegal.

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"Television is chewing gum for the eyes" - Frank Lloyd Wright
Dont forget to vote in news.announce.newgroups !
My views dont express those of my employer, etc., etc.

Date: Sun, 24 Jul 1994 13:02:33 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
kludge@network.ucsd.edu
Subject: Two-meter satellite CW transmitter
To: ham-homebrew@ucsd.edu

In article <1994Jul21.181326.24439@devildog.att.com> doug@acpy01.utsd.att.com
writes:

>I'm looking for a simple two-meter CW transmitter for use on RS-10. I
>can't use a crystal controlled transmitter because the protocol on RS-10
>requires that the two-meter uplink signal be changed slowly during
>the QSO so as to maintain a constant downlink frequency.

Frankly, I'm not impressed with my ability to build a VFO up at those
frequencies; it can probably be done with reasonable stability, but not
with my mechanical abilities.

How much of a change in frequency is the doppler going to produce? You
can actually get a rather substantial frequency change with a VCXO.... just
a padder cap that lets you change the loading on a crystal oscillator. It's
not going to tune the whole band, but it should be enough to compensate
for doppler, and it's stable and dirt cheap to build (assuming you can
get the crystals cheaply).

--scott

--

"C'est un Nagra. C'est suisse, et tres, tres precis."

Date: 25 Jul 1994 00:49:25 -0400
From: peach!atl1!w4qo@uunet.uu.net
Subject: Two-meter satellite CW transmitter
To: ham-homebrew@ucsd.edu

I agree with Gary Koffman, you can pull a xtal controlled rig to work
satellite. I would suggest you look for an AMECO TX-62 transmitter.
They go for between \$20 and \$40 at hamfests. Some have a VFO with them.
They put out about 30 watts which should be plenty to get into RS-10/11.

Good luck.

Jim Stafford, w4qo@america.net

Date: 25 Jul 1994 04:20:32 GMT
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!convex!news.duke.edu!news-

feed-1.peachnet.edu!hobbes.cc.uga.edu!aisun3.ai.uga.edu!mcovingt@network.ucsd.edu
To: ham-homebrew@ucsd.edu

References <Ct5A12.3x7@wybbs.mi.org>, <YEE.94Jul21012122@mipgsun.mipg.upenn.edu>,
<FAUNT.94Jul21213733@netcom11.netcom.com>uga.edu
Subject : Re: Building a house: Special Considerations?

In article <FAUNT.94Jul21213733@netcom11.netcom.com> faunt@netcom11.netcom.com
(Doug Faunt N6TQS 510-655-8604) writes:

>So, how much current at 220 is enough? Is a 20A 220V circuit enough,
>or should that circuit be pulled with #10 or #8?
>73, doug

I should think that a 4400-watt circuit would suffice for a kilowatt
amplifier! Of course, if you're thinking resale, there's the
possibility of your shack being turned into a woodworking shop,
but I think 20A at 220V would suffice for that, too.

What you might want is several separate circuits, to allow a greater
degree of isolation between pieces of equipment. Two 220V and two or
three 120V, perhaps.

--
< Michael A. Covington, Assc Rsch Scientist, Artificial Intelligence Center >
< The University of Georgia, Athens, GA 30602-7415 USA mcovingt@ai.uga.edu >
< Unless specifically indicated, I am not speaking for the University. > <><
For information about any U.Ga. graduate program, email gradadm@uga.cc.uga.edu.

End of Ham-Homebrew Digest V94 #209
